EYDUS, N.M.

Vladivostok School of Pharmacy. Apt.delo 6 no.6:41-42 N-D '57.

(MIRA 10:12)

1. Direktor Vladivostokskogo farmatsevticheskogo uchilishcha.

(VIADIVOSTOK--PHARMACY--STUDY AND TEACHING)

EIDUS, W.M.

Eliminate shortcomings in training subordinate pharmaceutical
peronnel. Apt.delo 7 no.3:37 My-Je '58 (MIRA 11:7)

1. Iz Vladivostokskogo farmatsevticheskogo uchilishcha.
(PHARMACY-STUDY AND TRACHING)

EYDUS, YA. [Eiduss, J.]; MUTSEWIETSE, L. [Muceniece, L.]

Ultraviolet absorbtion sceetra of nitrofurans. Vestis Latv
ak no.11:65-82 '61.

EYDUS, Ya. [Eiduss, J.]

Prominent physicist August Toepler of the 19th century and his work in Riga. Izv.AN Latv.SSR no.2:128-130 '63. (MIRA 16:4) (Toepler, August Joseph Ignaz, 1836-1912)

ACC NR: AP7009580

SOURCE CODE: UR/0259/66/000/011/0005/0008

AUTHOR: Eydus, Ya. (Candidate of physico-mathematical sciences)

ORG: none

TITLE: Beams of light carrying information SOURCE: Naukn i tekhnika, no. 11, 1966, 5-8 TOPIC TAGS: laser communication, laser beam

SUB CODE: 17,20

The ever-expanding need for exchange of information has crowded the ABSTRACT: radio frequency spectrum. A qualitatively new solution to the problem of channel capacity is offered by the recently created sources of monochromatic coherent light. These so-called masers and lasers operate at extremely high frequencies. and, since the quantity of information theoretically able to be transmitted on a communcations channel is directly proportional to the frequency, their theoretical information capacity is tremendous. The capacity of a laser communications channel is at least 1000 times greater than the capacity of all radio channels used up to now, including microwave. This means that if we use 1% of the carrier frequency for message transmission, a laser beam operating at . 3.10 Hz could carry approximately 1 billion telephone conversations or several thousand television channels simultaneously. Due to the coherent nature of the beam and the lack of dissipation, a low power (several dozen watts) laser installation can maintain communications in outer space over ranges of hundreds of millions of kilometers. The primary problem hindering laser communications now is modulation of the laser beam. Theoretically, any of the four standard

Card 1/2

10930 1111

ACC NR: AP7009580

parameters of a laser beam can be modulated to place information on the beam: frequency, amplitude, phase and polarization. Actually, two primary methods can be used to modulate the light beam exiting from a laser: internal and external methods. In the first case, the light beam is acted upon as it is being formed, i.e., within the actual laser. In the second case, the modulation being formed after the beam has been created. Internal methods include reis performed after the beam has been created. generation modulation, modulation using the Stark effect and modulation using the Seeman offect. Scientists at present are giving preference to the external modulation methods, which include modulation of the pumping, mechanical modulation, modulation using the Faraday effect, modulation using the Kerr effect and modulation using the optical birefringence effect in pietzoelectric crystals. This last effect, especially strongly appearing in potassium dinydrophosphate and ammonium dihydrophosphate crystals, is currently considered to be the most promising. Orig. art. has: 4 figures. [JPRS: 40,102]

EYDUS, Ya.A. [Eiduss, J.]; VENTER, K.K.; GILLER, S.A., akademik

Effect of terminal substituents in 5-nitrofurylpolyene derivatives on their electron spectra. Dokl. AN SSSR LAI no.3:655-658 N '61.

1. Institut erganickskogo sinteza AN Latvlytkoy
SSR i Latvlyckly gosudaratvonnyy universitet im. P. Stuchki.
2. AN Latvlyskoy SSR (for Giller).

(Olofins--Spectra)

SILIN'SH, E.A. [Silins, E.]; POPENS, YA.YA. [Popens, J.]; EYDUS, Ya.A. [Edius, J.]

Spectrophotometric and fluorimteric determination of corticosteroid hormones. Izv. AN SSSR.Ser.fiz. 26 no.10:1311-1313 '62. (MIRA 15:10)

1. Latviyskiy gosudarstvennyy universitet im. Petra Stuchki i Respublikanskaya klinicheskaya bol'nitsa im. Paulya Stradynya. (HORMONES) (SPECTROPHOTOMETRY) (FLUORIMETRY)

s/197/63/000/002/004/005 B117/B186

AUTHORS:

Eydus, Ya., Polko, T., Yur'yev, Yu.

TITLE:

Vibrational and electronic spectra of certain selenophene

homologues

PERIODICAL: Akademiya nauk Latviyskoy SSR. Izvestiya, no. 2 (187),

1963, 63-67

TEXT: Vibrational and electron spectra of trimethyl, tetramethyl, 2ethyl, 2-propyl and 2-butylselenophene were examined and compared with previously investigated spectra of mono and dialkyl selenophenes. The following particularities were established; The band 3060 cm⁻¹, which corresponds to the C-H vibrations and is intensive in the infrared spectrum of the selenophene, is slightly shifted toward lower frequencies. It is intensive in Raman spectra but, unlike selenophene, it is very weak in infrared spectra. Since the intensive band observed between 2950

and 2960 cm⁻¹ is absent from the spectrum of the very symmetric tetramethylselenophene it seems to be characteristic for such selenophenes as are substituted by mono-, di-, and trialkyl. Unlike tri- and Card 1/2

Vibrational and electronic spectra of ... S/197/63/000/002/004/005

tetramethylselenophenos, in whose spectrum the band 2750 cm is very weak, it became intensified in the spectra of mono- and dimethylselenophene as the number of methyl groups increased. The bands corresponding to the C=C vibrations were ascertained in the same region as in the spectra of alkyl derivatives of selenophene previously investigated. The band in the region 700 cm⁻¹ is characteristic for the vibrations of the C-Se bonding and likewise agrees with previous results. The band in the region 1380 cm⁻¹, established in all the compounds investigated, may be attributed to deformation vibrations of the C-H bonding. On comparing the vibrational spectra examined with data hitherto available on spectra of alkanes, cyclic and aromatic hydrocarbons it was found that cyclic compounds that are substituted by propyl can be identified from theirvibrational spectra with sufficient reliability. In investigating the electron spectra of alkyl selenophenes it was found that they have an absorption maximum in the region 250 mm but fail to exhibit any other particularity. There are 5 figures and 1 table.

SUBMITTED: September 1, 1962

Card 2/2

ACCESSION NR: AP4020955

5/0051/64/016/003/0424/0428

AUTHOR: Bobovich, Ya.S.; Eydus, Ya.A.

TITLE: Quantitative measurements of intensity in the Raman spectra of powdered substances

SOURCE: Optika i spektroskopiya, v.16, no.3, 1964, 424-428

TOPIC TAGS: Raman spectroscopy of solids, powder Raman spectra, naphthalene, furan, nitrofuran, paranitrophenetole, diphenylamine, paranitrotoluene, stilbene, tolan, diphenylacetylene

ABSTRACT: It is difficult or impossible to obtain Raman spectra by the conventional procedure in the case of poorly soluble substances and substances that undergo photochemical reactions in solution. In principle the problem of obtaining the Raman spectra of such substances in powdered form has been solved; the operation involves the use of powerful mercury tubes and a double monochromator (B.A.Kiselev, Opt.i spektr.1,597,1956; S.L.Berkovich et al, Ibid.6,824,1959; Ya.S.Bobovich and V. Mirivovarov, Zhett 29,696,1955). In the present article there is described a specific technique for measuring the intensity coefficients of the Raman lines in the

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ACCESSION NR: AP4020955

spectra of fine-crystalline organic powders as well as some applications of the technique. The analyzed substance is mixed with naphthalene and thoroughly ground; the mixture is coated on an oblique cut surface of a wooden cylinder. The exciting radiation is supplied by a helical low-pressure mercury discharge tube and the scattered radiation is viewed, as usual, from the side. The naphthalene serves as the internal standard, i.e., the Raman line intensities are gaged with reference to the intensity of the 1380 cm⁻¹ naphthalene line. It is noted that an essential requirement in the case of colored substances is that the exciting radiation must be of appropriate frequency, i.e., must penetrate into the substance + naphthalene layer. The results of test measurements on a number of substances insoluble and soluble are described; among the insoluble substances were some nitrofurans and para-nitrophenetole (the intensity increases in direct proportion to the molar concentration in the mixture with naphthalene). For the soluble substances the intensity values obtained for the powders and for solutions agree in some cases, but differ significantly in others (but the relative values for different substances are consistent). Thus, the proposed technique makes it possible to obtain the Raman spectra of many substances that cannot be worked with in the form of solutions. Orig.art.has: 2 figures and 2 tables.

Cord 2/\$7

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CI

CIA-RDP86-00513R00041231

L 62302-65 EWT(1)/EWT(m)/EPF(c)/EWP(j)/T/EWA(c) IJP(c) RM-ACCESSION NR: AP5019982 UR/0371/65/000/002/0075/0082

16

AUTHOR: Eiduss, J. (Eydus, Ya. A); Zuika, I. (Zuyka, I. V.)

TITIE: Band intensities in Raman spectra of crystalline powders of 5-nitrofurans and the intramolecular interaction

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 2, 1965, 75-82

TOPIC TAGS: Raman spectrum, nitrofuran, conjugated bond system, nitrofuran vinylog

ABSTRACT: The authors obtained Raman spectra and determined the band intensity coefficients for a series of nitrofurans and their vinylogs. A method involving the use of an internal standard (nephthalene) was used. It consisted in thoroughly mixing the substance studied in the form of a crystalline powder with the powdered internal standard in various molar ratios and recording the spectrum with a DFS-12 diffraction spectrometer. It was found that in the crystalline state, certain nitrofurans and their first vinylogs are sufficiently stable when illuminated with the 4360 Å line of mercury, so that the measurements could be carried out. The band intensity of the nitro group in

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ACCESSION NR: AP5019982

the region of 1350 cm⁻¹ is discussed; while the frequency of the nitro group varies little upon the introduction of the vinylidene group into the 2-substituting chain (by no more than 10 cm⁻¹), the intensity varies by a whole order of magnitude and even more (by a factor of 20-40). This increase in the intensity of the vibrational band of the substituent, located in the para position relative to the additional conjugation element introduced, indicates beyond any doubt that the nitro group, ring, and X-substituent are integral parts of a single conjugated electronic system. This may be regarded as sufficient evidence in favor of the interpretation of electronic bands which treats the latter as the result of the first and second electronic transition, and not as transitions of two isolated electronic systems ("separated chromophores"). Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Latviyskiy gosudarstvennyy universitet im. P. Stuchki (Latvian State University)

SUBMITTED: 10Dec64

ENCL: 00

SUB CODE: OC, OP

NO REF SOV: 012

OTHER: 000

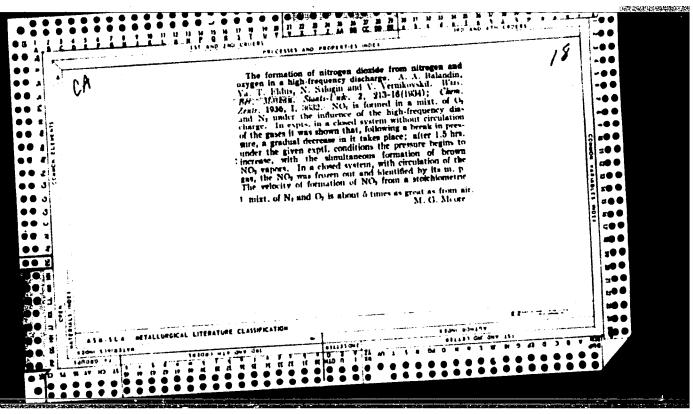
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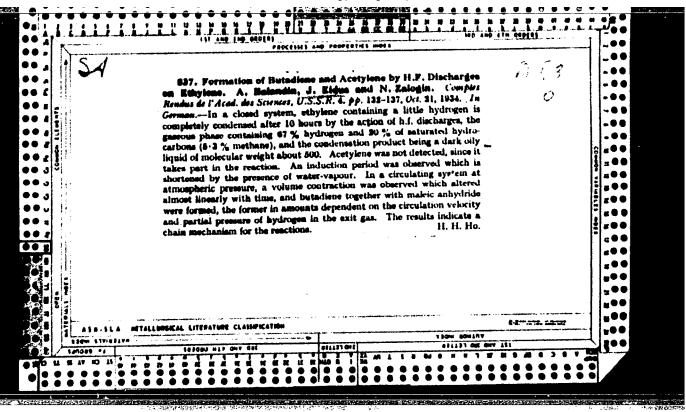
Card 2/2

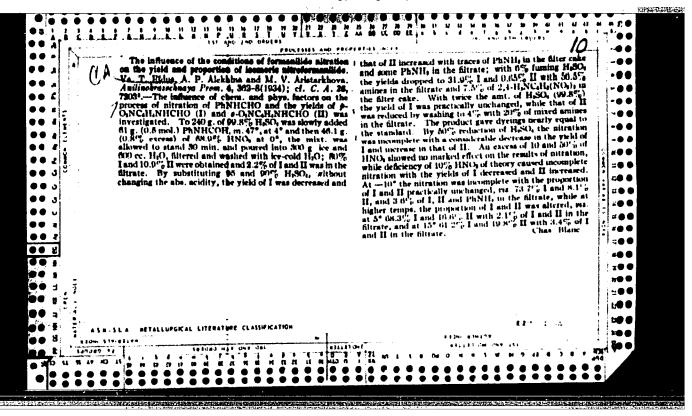
CHIPEN, G.I.; EYDUS, Ya.A. [Eidus, J.]; BOBOVICH, Ya.S.; GRINSHTEYN, V.Ya. [Grinsteins, V.]

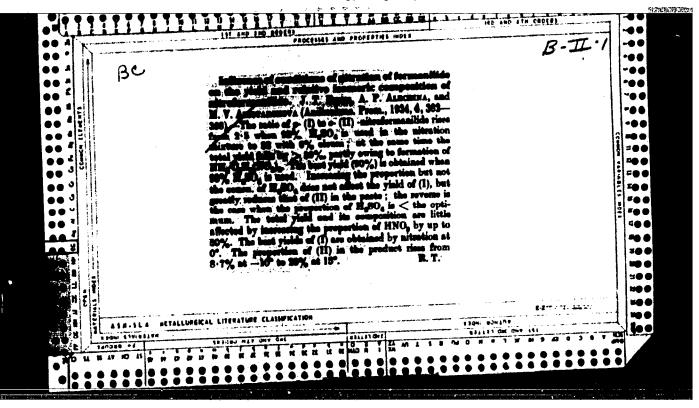
Structure of N-acyl derivatives of 3-phenyl-5-amino-1,2,4-triazole. Zhur. strukt.khim. 6 no.1:53-57 Ja-F '65. (MIRA 18:12)

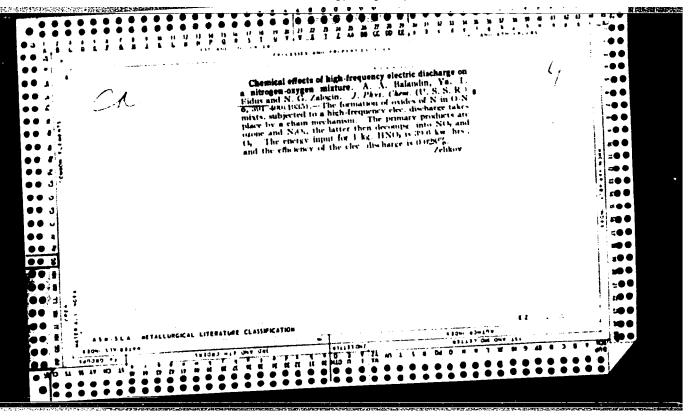
1. Institut organicheskogo sinteza AN Latviyskoy SSR; Latviyskiy gosudarstvennyy universitet imeni P.Stuchki i Gosudarstvennyy opticheskiy institut imeni S.I.Vavilova. Submitted October 10, 1963.

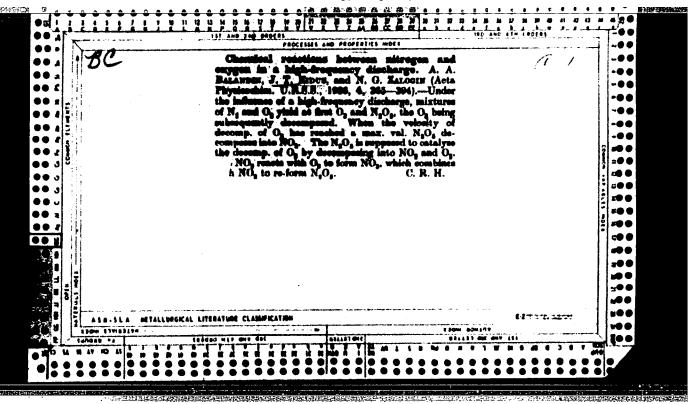


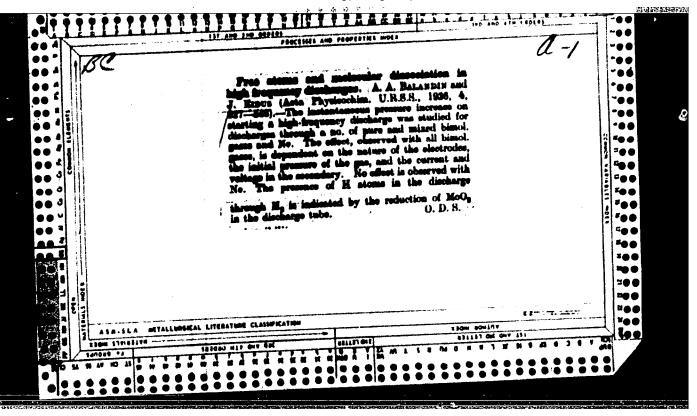


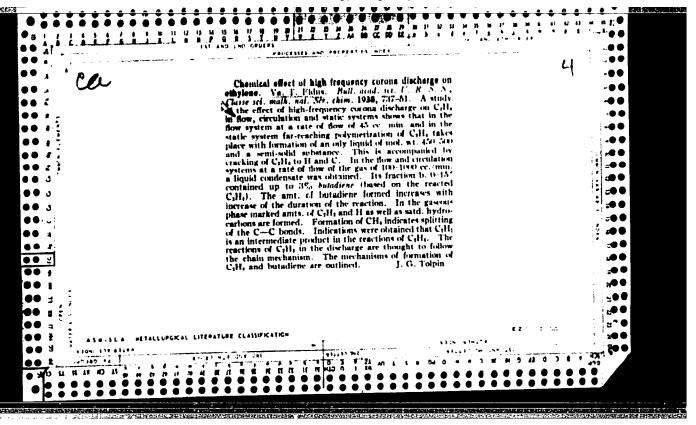


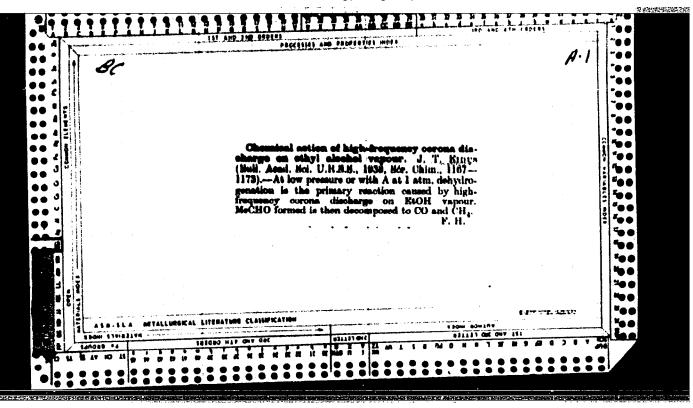


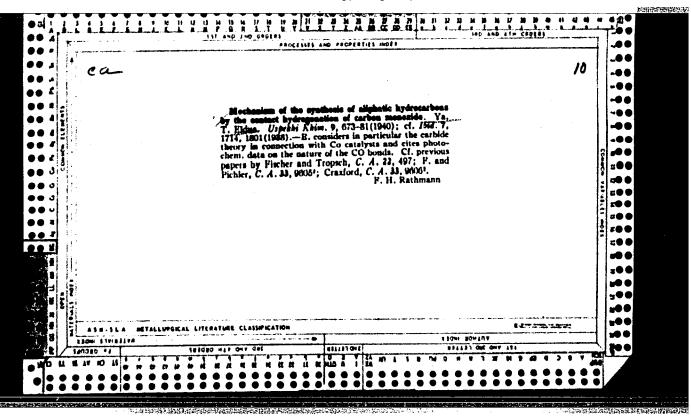


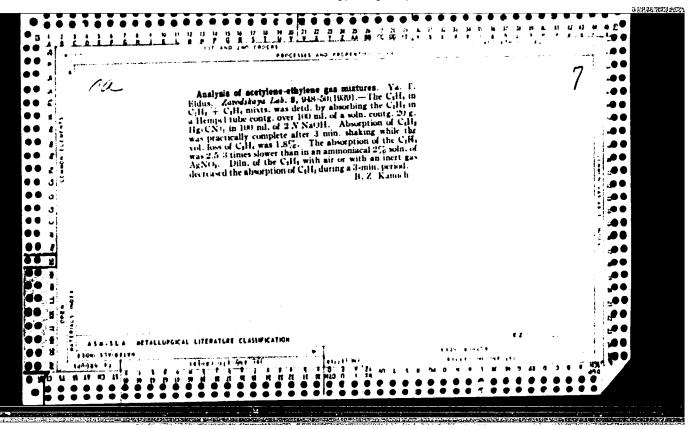


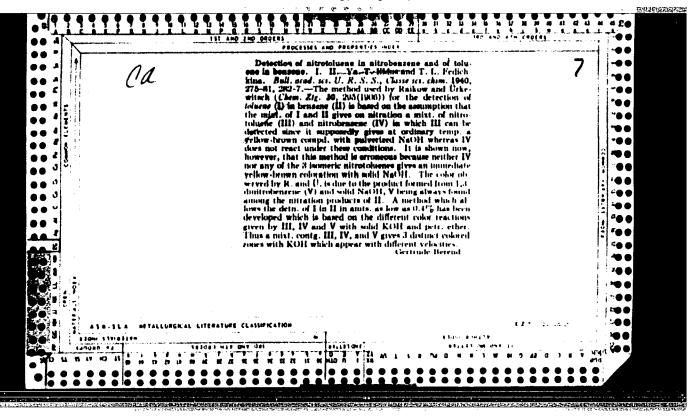


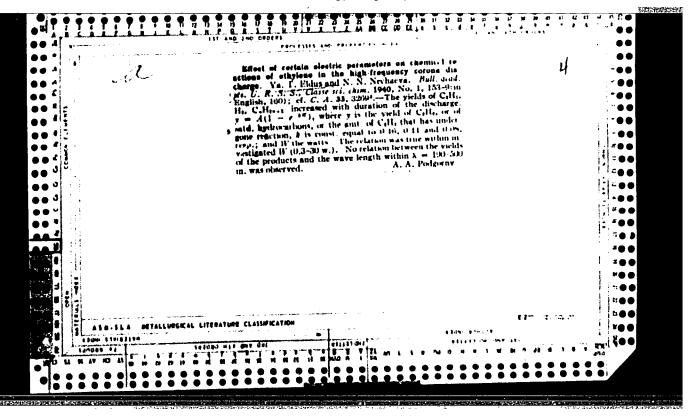


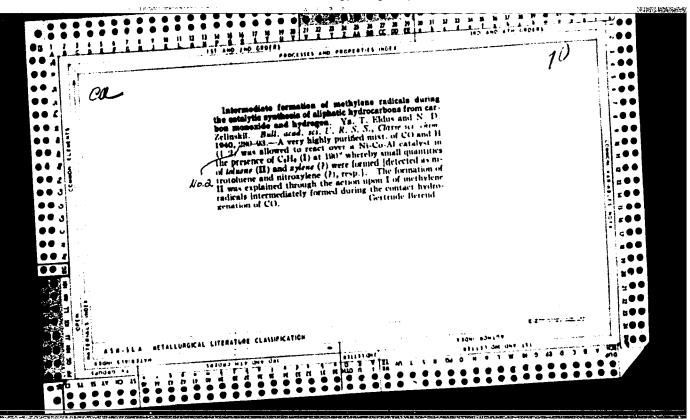




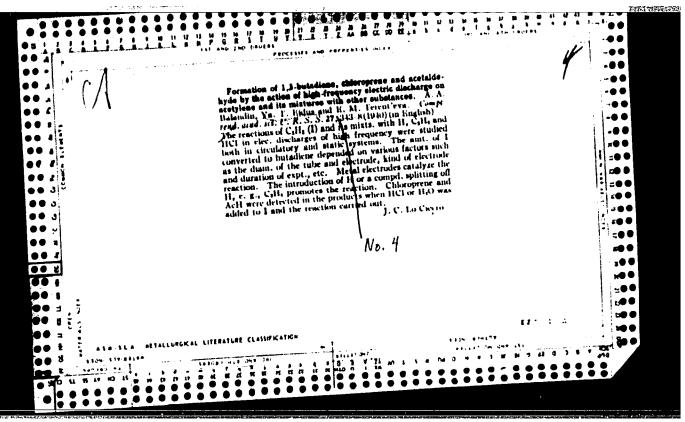








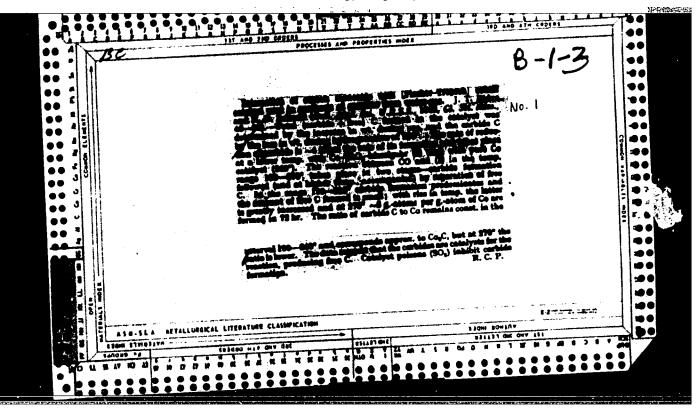
	S, IA. T.
RT-1 hydr SO:	1420(The mechanism of the synthesis of aliphatic hydrocarbons by the contect regenation of carbon monoxide) <u>Uspekhi Khimii</u> ,9(6): 673-681, 1940 (Orginal Russian source unamialable for reverse)

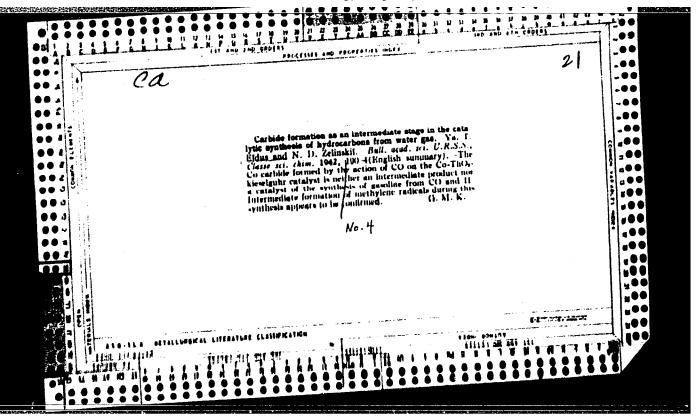


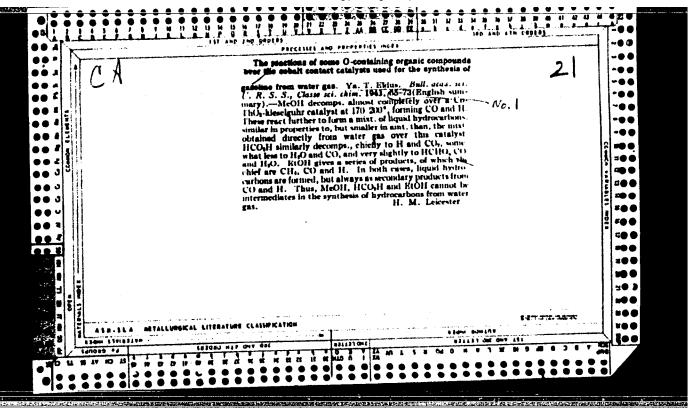
EYDUS, Ya. T., KAZANSKIY, B. A. and ZELINSKIY, N. D.

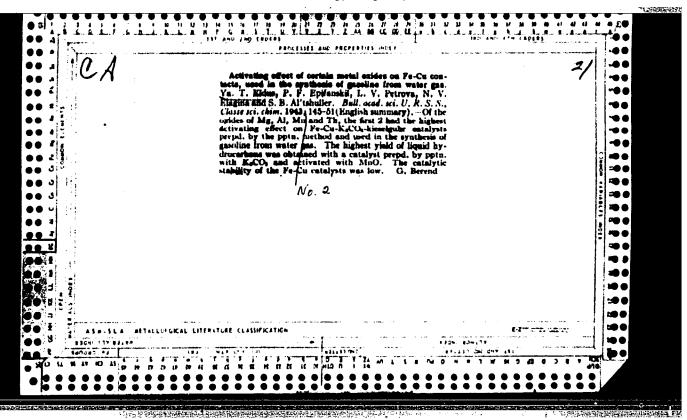
"The Influence of the Type of Carrier on the Synthesis of Liquid Hydrocarbons Over Ni-MnO-Al₂O₃ Catalysts at Atmospheric Pressure," Iz. Ak. Nauk SSSR, Otdel Tekh Nauk, pp 27-33, 1941

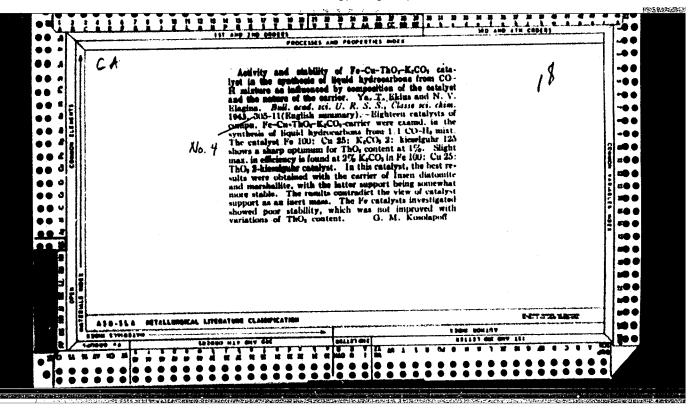
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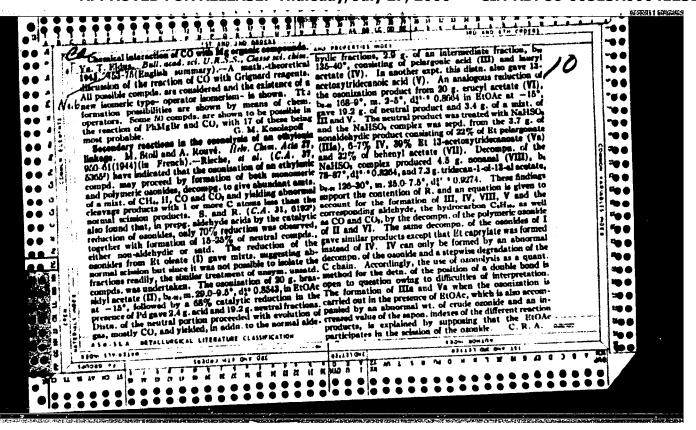


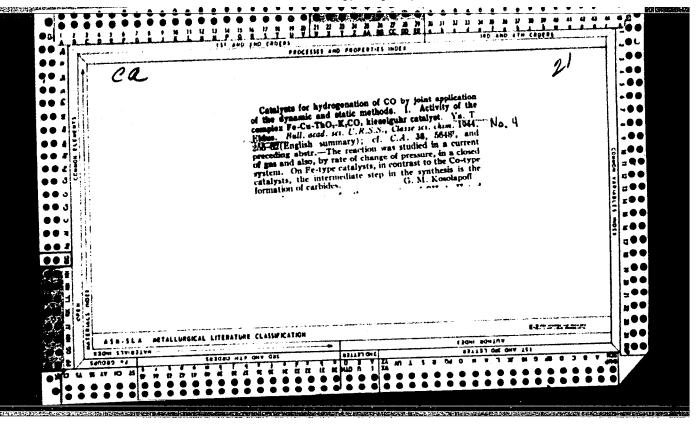


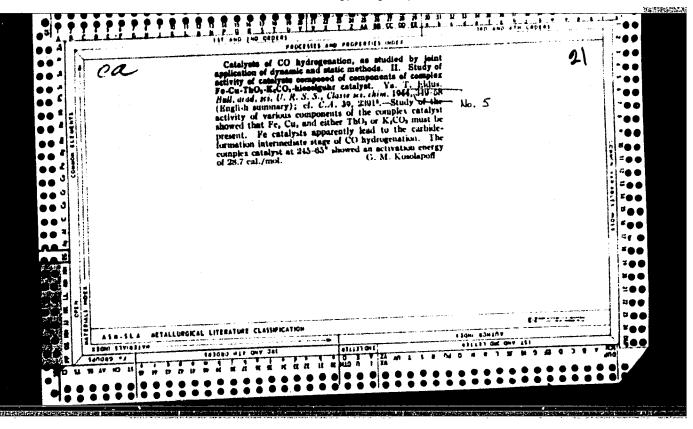


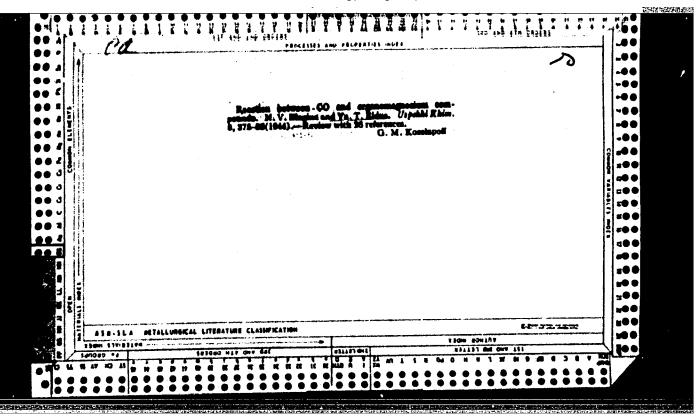




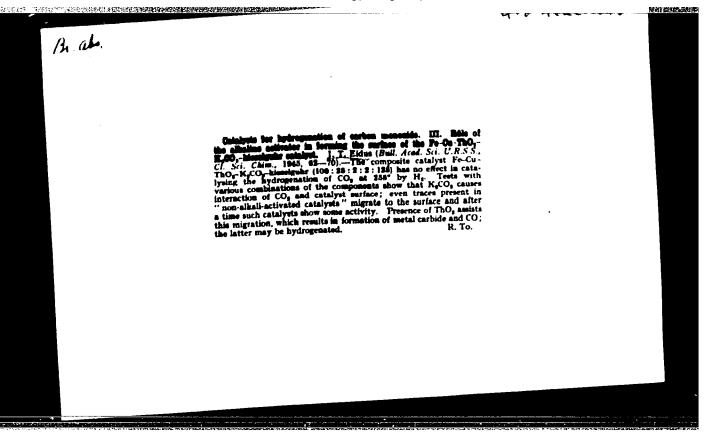


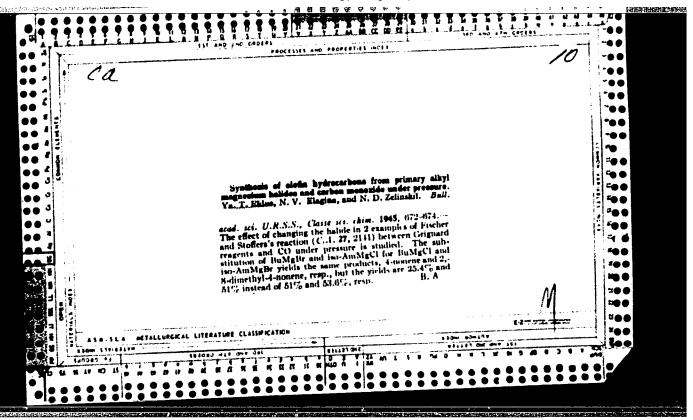


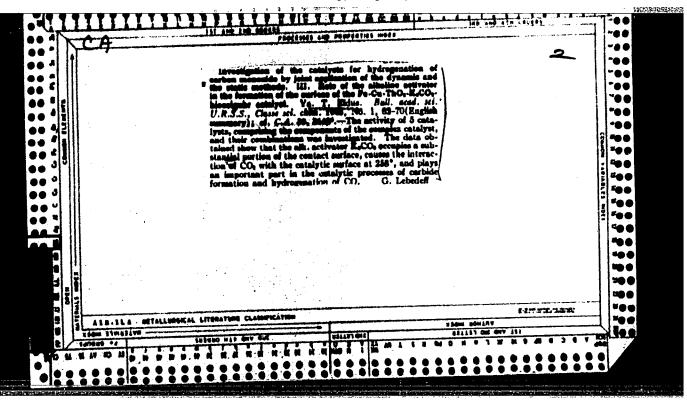


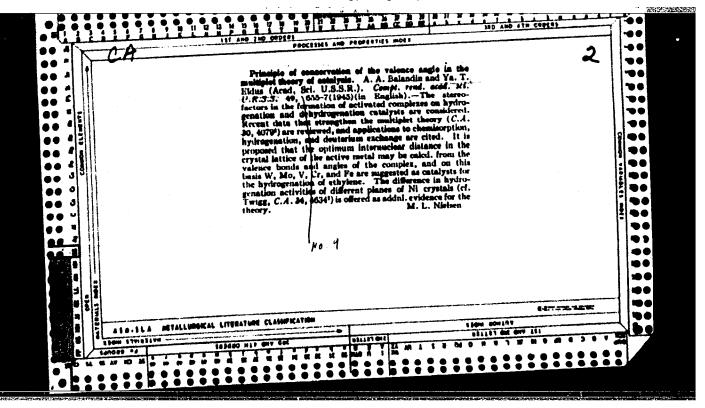


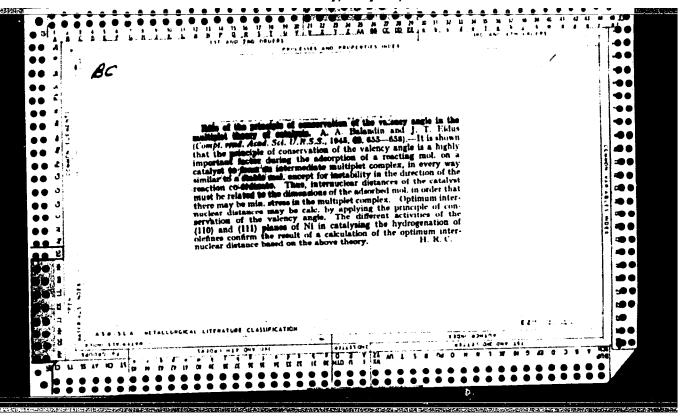
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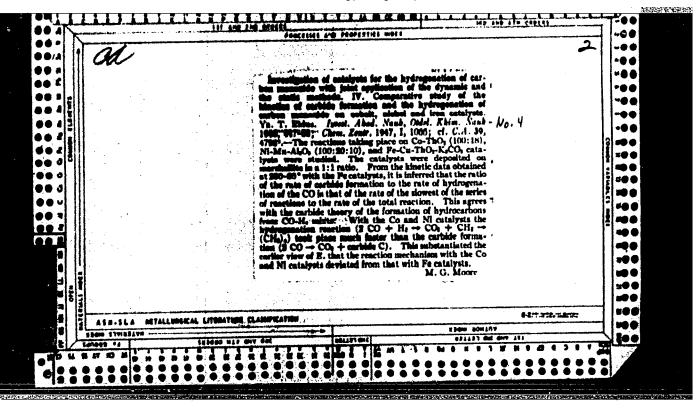


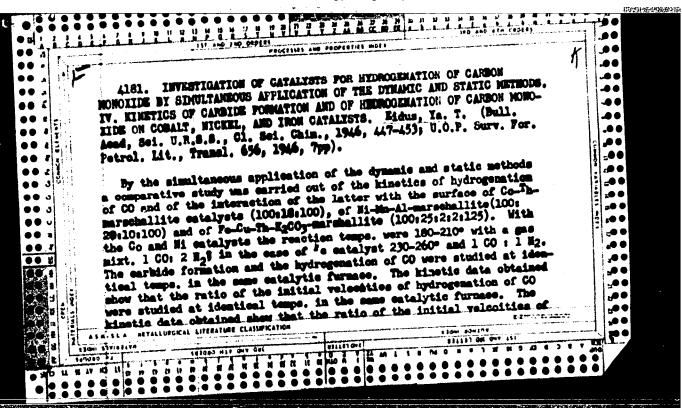


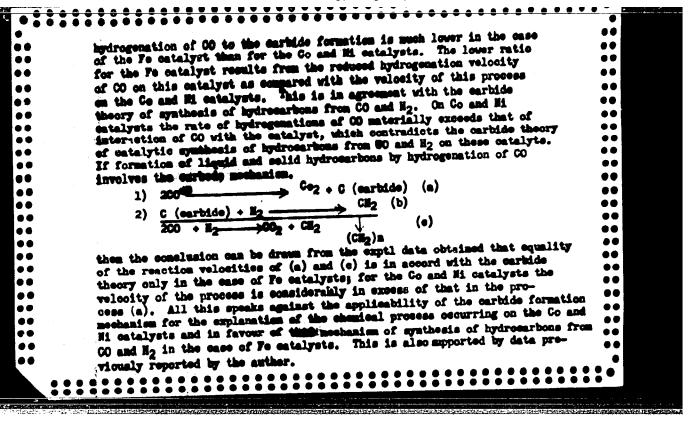


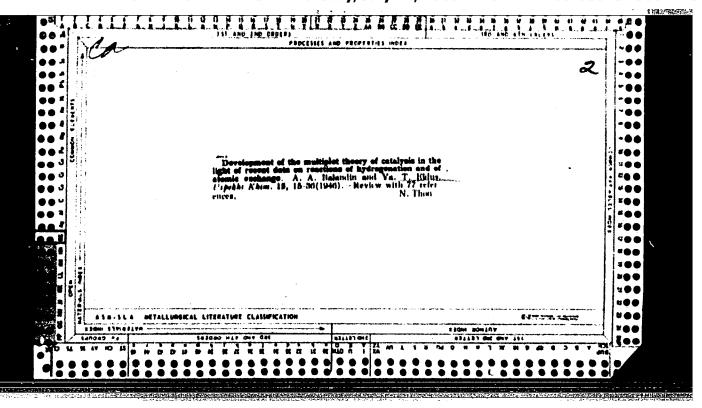


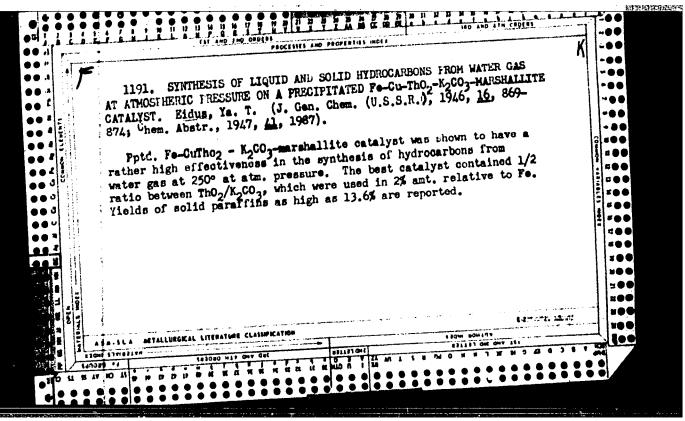


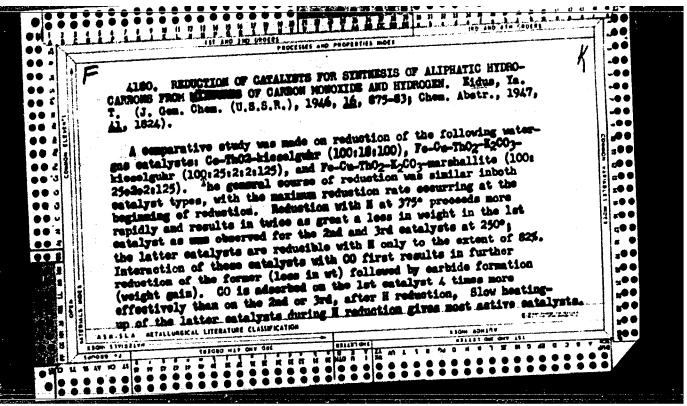


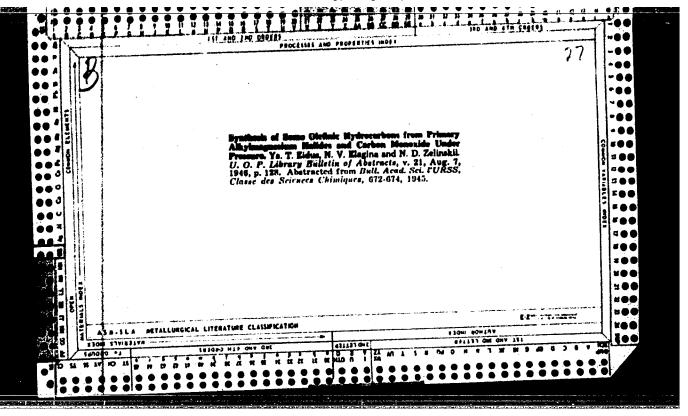


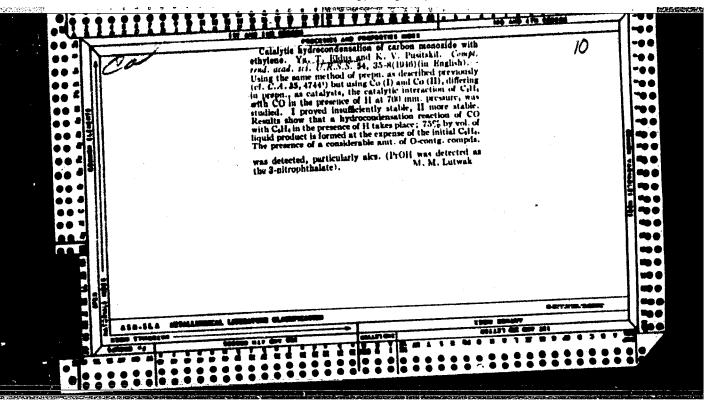


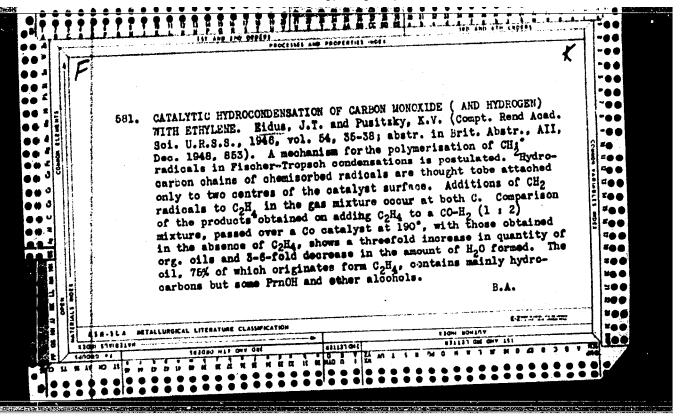


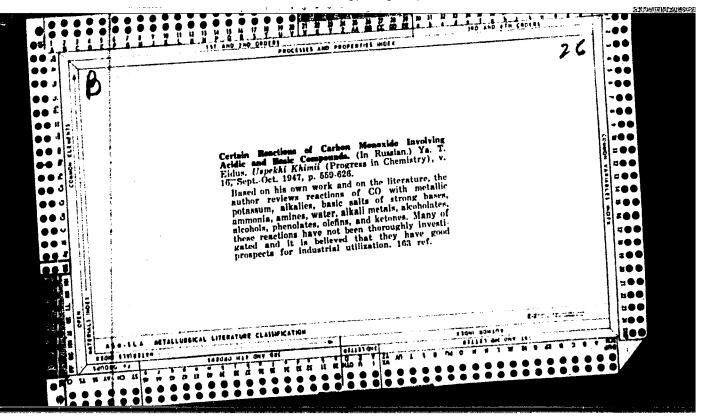










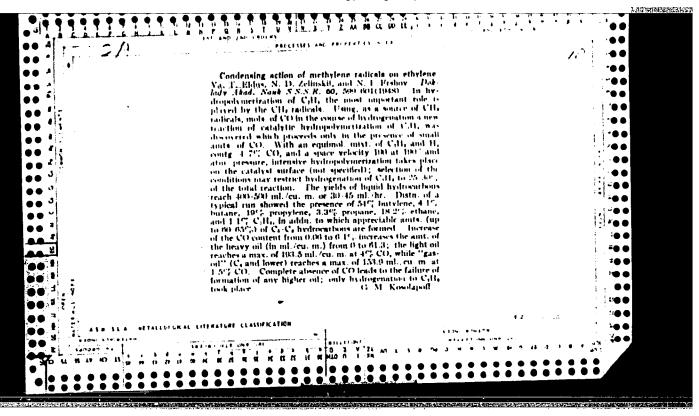


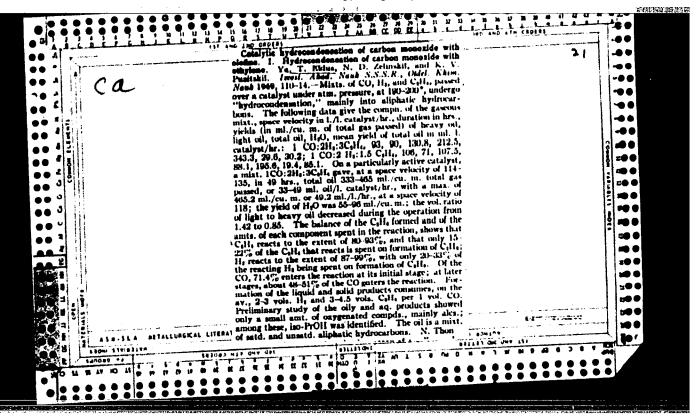
USSR/Chemistry - Ethylene, Polymerization May 1948
With Methylene Radicals
Chemistry - Polymerization, Catalysts for

"On the Condensation Action of Methylene Radicals on Ethylene," Ya. T. Endus, Acad N. D. Zelinskiy,
N. I. Ershov, J pp

"Dok Ak Nauk SSER" Vol IX, No 4

Report of experiments on above subject, which led to discovery of new catalytic hydropolymerization of ethylene in presence of small quantities of carbon monoxide. Submitted 10 Mar 1948.





EYDUS, YA. T.

USSR/Chemistry - Hydrocarbons, Liquid Chemistry - Condensation Compounds May/Jun 49

"Catalytic Hydrocondensation of Carbon Monoxide with Olefines: No. II, Investigation of the Liquid Products of the Condensation of Carbon Monoxide with Ethylene," Ya. T. Eydus, N. D. Zelenskiy, K. V. Puzitskiy, Inst. of Org. Chem., Acad. Sci., USSR, 7 pp.

"Iz. Ak. Nauk SSSR, Otdel Khim Nauk" No. 3

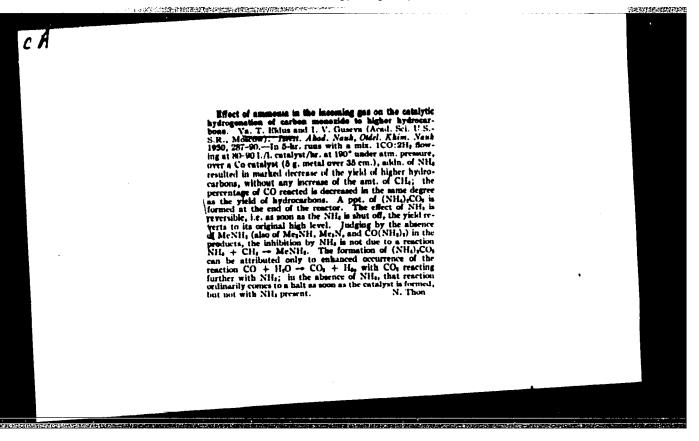
Subject products are chiefly propanol, propionic aldehyde, propionic acid, and aliphatic saturated and unsaturated hydrocarbons. Formation of the hydrocarbons is effected by the methylene radical. Submitted 12 Mar 48.

56/49T19

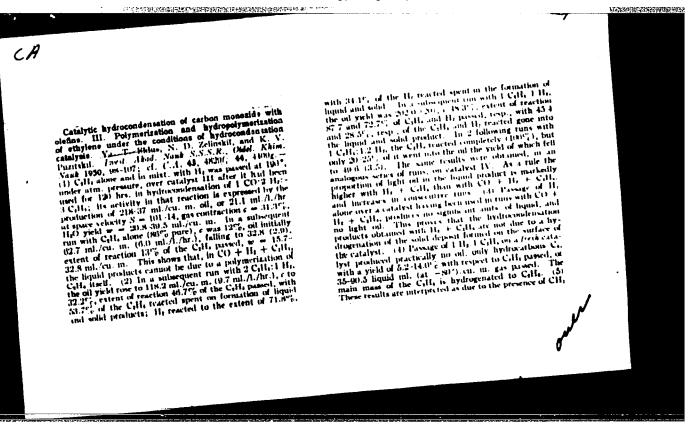
28924, Spektpy Pogdosheheni Ya 2-nitroindanoiona-l z b Ul' traftodetovoy Oblasti.
Izuestiya Akad. Nauk Latv. SSR, 1949 No. 8, s. 21-4 O-Ma Latyts. Yaz. Rezyume Ne Rus. Yaz. Bibliogr: 12 Masv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 29, Moskva, 1949

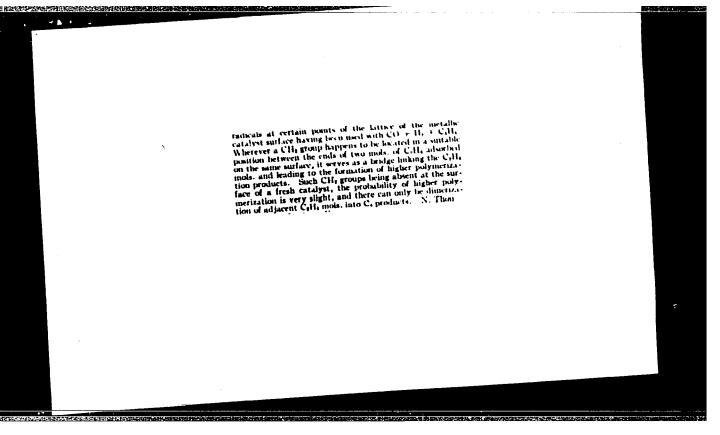
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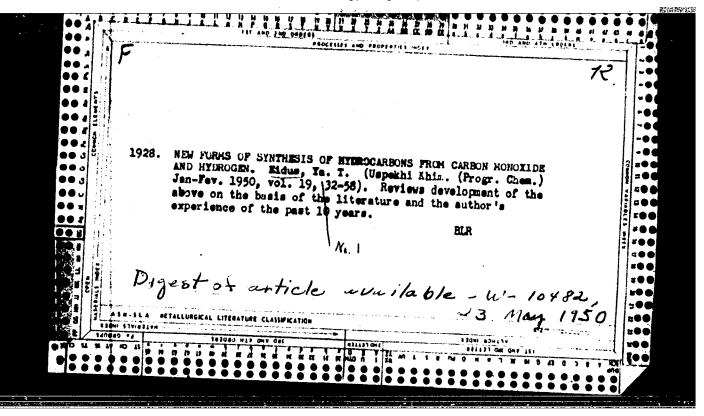


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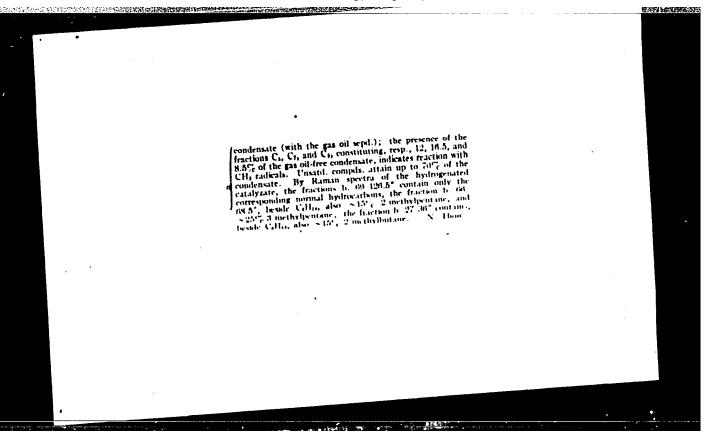


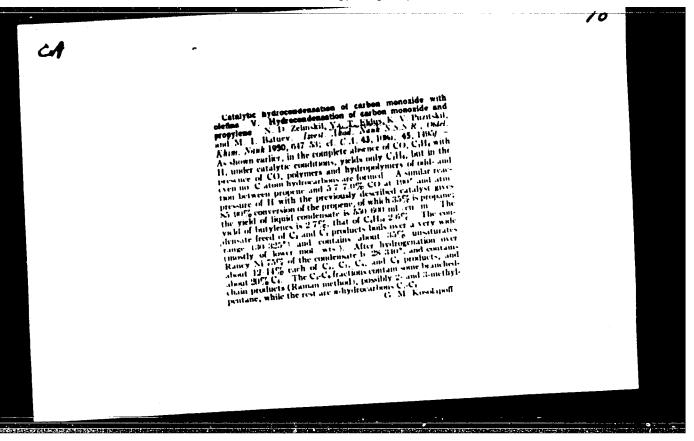
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ml. l. hr. Calla reacts to the extent of 77.7 98.5%, Ha to 62.3 06.0%; CO is consumed mainly (up to 94.9%) in the beginning of the run, less at later stages. The fraction of the reacted Calla converted to Calla varies from 27 it to 516%. At count space velocity, (a) 1.1. catalyst hr., with a gas myst. contg. 8.7%; CO, the optimum temp., in the 183-250 range, is 180-210%. By fractionation of the products from an equinnol mixt. of Calla and Ha, contg 4.7%; CO, the gas off constitutes about 30% of all org. products in the condensate, and consists mor median Calla 0.4 (a) 1.1. (a) 18.2. (c) 11. 19.0. (c) 11. 3.3. (c) 11. 54. (c) 11. (c) 11. (c) 11. (d) 18.2. (c) 11. (d) 19.0. (c) 11. (d) 3.3. (d) 1. (d)

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EYDUS, Ya. T.

USSR/Chemistry - Petroleum

Mar/Apr 51

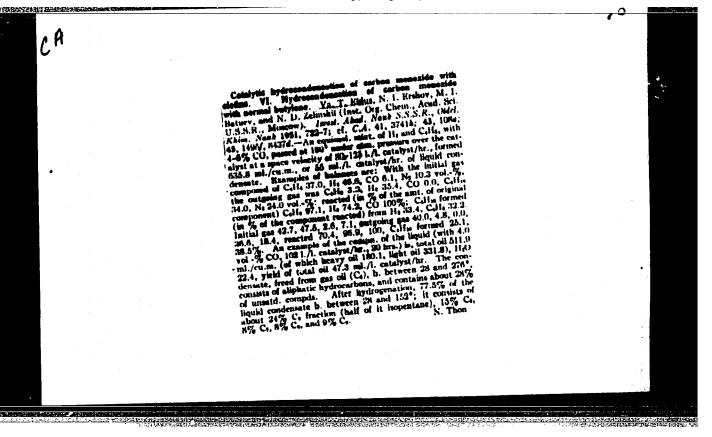
"On the Essential Reversibility and Equilibrium of the Catalytic Polymerization of Methylene Radicals," Ya. T. Eydus, Inst. Org. Chem., Acad. Sci., USSR.

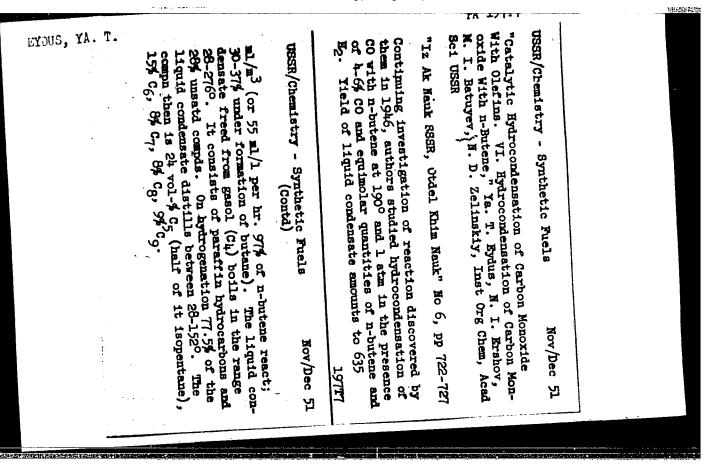
"Iz. Ak. Nauk SSSR, Otdel Khim Nauk" No. 2, pp. 129-132.

Examined concept of equilibrium between (1) catalytic polymerization of methylene radicals and (2) depolymerization of resultant "giant mol" (according to -- R. Craxford). Found experimental data disprove, not support, this concept.

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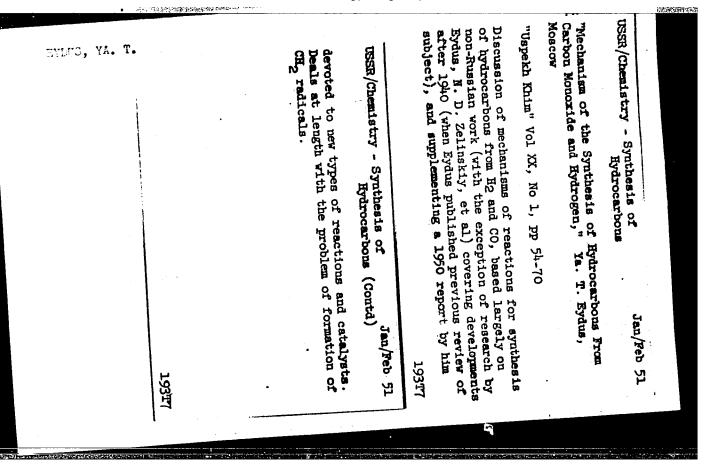
Presented revocability and equilibrium of the catelytic physical properties of the catelytic physical physical





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USSR/Chemistry - Organometallic Compounds

T. GOULL

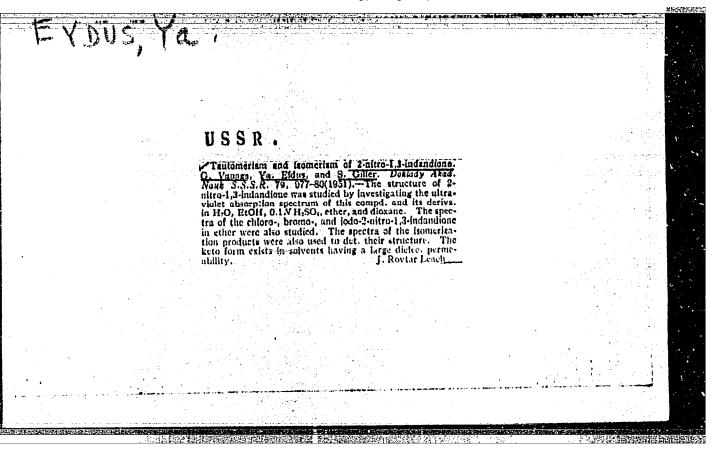
Sep/Oct 51

"Review of S. T. Ioffe and A. N. Nesmepenov's 'Handbook of Magnesium-Organic Compounds,' I-III," Ya. T. Eydus

"Uspekh Khim" Vol XX, No. 5, pp 671, 672

Reviews in some detail this work, which is a part of the series "Synthetic Methods in the Field of Organometallic Compounds" published under the general editorial supervision of Acad A. N. Nesmeyanov and K. A. Kocheshkov, Corr Mem, Acad Sci USSR. States that all references to reactions involving Mgoorg compds and listed in "Chem Zentralblatt," 1899 - 1940, and "Chem Abstracts," 1941 - Jan 1, 1948, as well as Russian and USSR work in this fld not listed by these 2 journals (altogether more than 13,000 reactions) have been included in the handbook. According to Eydus, the handbook is well published and indexed. Published by Press Acad Sci USSR, M-L, 1950.

191714



NESMEYANOV, A.W., akademik, otvetstvennyy redaktor; BOBROV, P.A., doktor khimicheskikh nauk, otvetstvennyy redaktor; YELIZAROVA, A.N., kandidat khimicheskikh nauk, chlen redaktsionnoy kollegii; KAPLAN, Ye.P., kandidat khimicheskikh nauk, chlen redaktsionnoy kollegii; WAGIBINA, T.D., kandidat khimicheskikh nauk, chlen redaktsionnoy kollegii; RUDENKO, V.A., kandidat khimicheskikh nauk, samestitel otvetstvennogo redaktora; EYDUS, Ya.T., doktor khimicheskikh nauk, chlen redaktsionnoy kollegii.

[Syntheses of organic compounds] Sintery organicheskikh khimii. Moskva.

Izd-vo Akademii nauk SSSR. Vol.2. 1952. 190 p. (MLRA 6:5)

1. Akademiya nauk SSSR, Institut organicheskoy khimii. (Chemistry, Organic)

。 「最後、自然とは、自然とは、自然とは、自然とは、自然とは、自然とは、自然とは、自然とは	Hall Brien
USSER/Chemistry - Hydrocondensation Jan/Feb 76 Whe Catalytic Hydrocondensation of Carbon Monoxide With Olefins. VII: Effect of the Concentration YIN Effect of the Concentration Of Carbon Monoxide on Its Hydrocondensation With Year Tropene and n-Butene, "Ya. T. Eydus, N. D. Zelinskiy, R. V. Puzitskiy, N. I. Yershov, Inst of Org Chem, R. V. Puzitskiy, N. I. Yershov, Inst of Org Chem, R. V. Puzitskiy, N. I. Yershov, Inst of Org Chem, Acad Sci USER "Iz Ak Nauk, Otdel Knim Nauk" No 1, 1952, pp 145-151 "Iz Ak Nauk, Otdel Kn	
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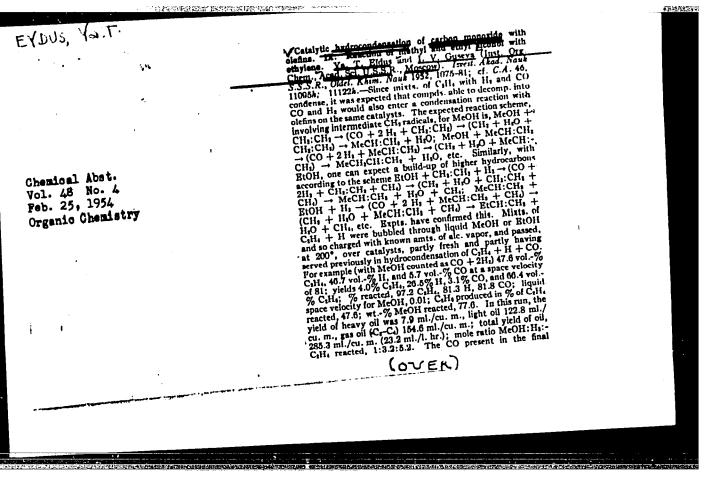
EYDUS, Ya.T.; PUZITSKIY, K.V.; BATUYEV, M.I.

Catalytic hydrocondensation of carbon monoxide with olefins. VIII. Hydrocondensation of carbon monoxide with isobutylene. Isvest. Akad. Nauk S.S.S.R. Otdel Khim. Nauk '52, 978-81. (HIRA 5:11) (GA 47 no.21:11122 '53)

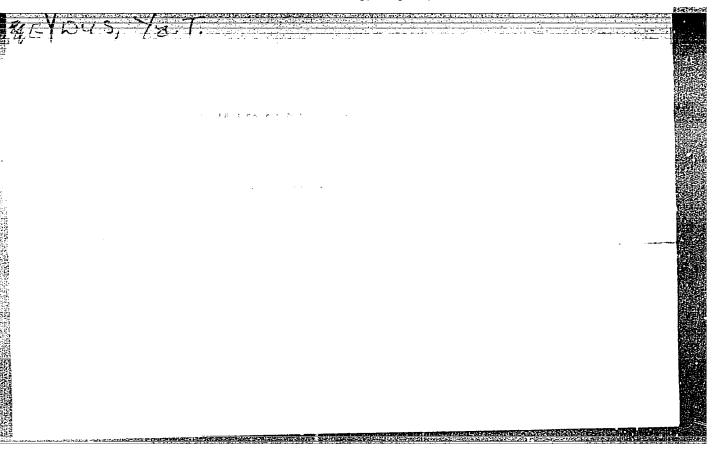
1. Inst. Org. Chem., Acad. Sci. U.S.S.R., Moscow.

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18-54



- 1. EYDUS, Ya.T.
- USSR (600)
- Fuel
- 7. Synthesis of motor fuel from carbon monoxide. Priroda. 41, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

EYDUS, YA. T.

USSR/Chemistry - Aromatic Hydrocarbons

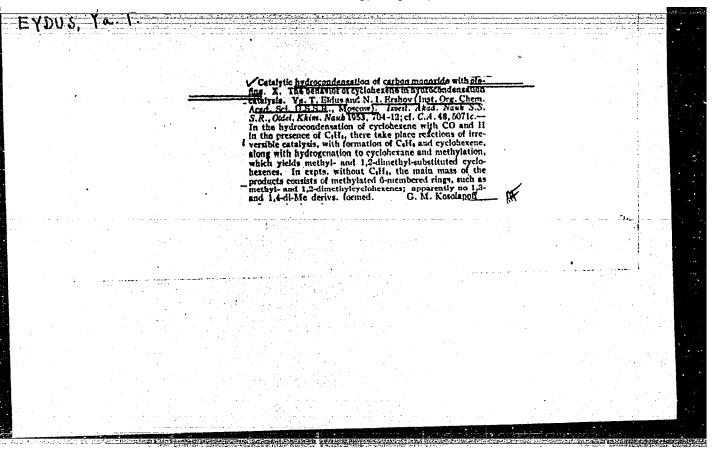
21 Nov 52

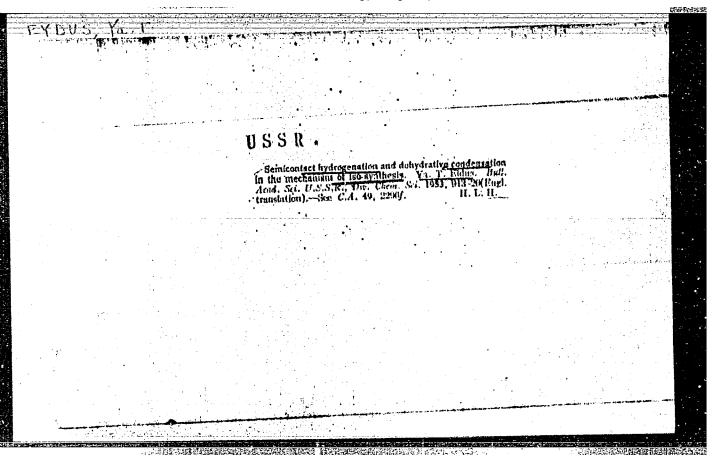
"Methylation of Cyclohexene With the Methylene Radical," Ya. T. Eydus and N. I. Yershov, Inst of Organic Chem, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 87, No 3, pp 433-436

The catalytic hydrocondensation of cyclohexene and carbon monoxide is studied. It was found that methylation due to the action of H_2 + CO occurs in the 1 and 2 positions of cyclohexene. Presented by Acad B. A. Kazanskiy 19 Sep 52.

245T13





- Hydrocarbon Synthesis, Catalysts	"Semi-Catalytic Hydrogenation and Dehydrating Condensation in the Isosynthesis Reaction Scheme," Ye. T. Eydus, Inst Org Chem, Acad Sci USSR	In the synthesis of hydrocarbons from CO and HZ on non-hydrogenating oxide catalysts (Al ₂ O ₃ ,ThO ₂), i.e. in isosynthesis, the mols of CO are addivated on the surface of the catalyst and remain attached to that surface, while the mols of H ₂ are activated thermally and react from th gas vol without	273TI	becoming attached to the catalyst. CHOH groups participate together with CH2 in the formation of hydrocarbon chains in this synthesis. Isocompds are then formed by catalytic condensation under elimination of water.	
USSR/Chemistry	"Semi-Catalyti densation in t	In the synthesis of hy on non-hydrogenating on the surface of the to that surface, while thermally and react fi		becoming attached to participate together of hydrocarbon chains compds are then forme under elimination of	

1.	KAZANSKIY.	P. A	ETDHS.	YA.T.

2. USSR (600)

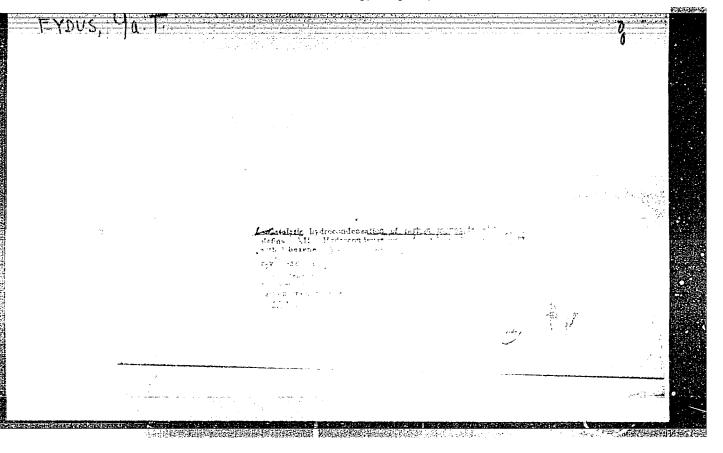
4. Hydrocarbons

7. "Chemical utilization of petroleum hydrocarbon gases." A.S. Nekrasov, B.A. Krentsel, Reviewed by B.A. Kazanskiy, YA. T. Eidus, Usp.khim. 22 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231(

	FILUS, YA. T	
######################################	USSR/Chemistry - Fuels	
and the same of the same	"Polymerization and Other Transformations of Ethylene and Propylene Under the Action of Heat, Free Radicals, and Other Active Particles," Ya.T. Eldus and X.V. Puzitskiy (Moscow)	
	Zhur Prik Khim, Vol 22, No 7, pp 838-877	
	Discusses the thermal polymerization of ethylene (I) and propylene (II) under pressures both below and above atm. Goes on to discuss the polymerization of I and II under the action of photons, exited metal atoms, free atoms, and radicals. Also discusses the polymerization of I and II in	
	273T29	
Constitution and	electrical discharge fields (electropolymerization). Bibliography consists or 204 references of which 25 are Russian and the remainder of western origin.	
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nest consequences		一种特殊的数



EYMIS YAR PUZITSKIY, K.V.; GUSEVA, I.V.

Catalytic condensation of carbon monoxide with olefins. Report no.13. Effect of the ethylene-hydrogen relation in the initial gas, of nitrogen dilution, and of volume velocity on the hydrocondensation of carbon monoxide with ethylene. Izv.AN SSSR Otd. khim.nauk no.5:890-897 S-0 '54. (MIRA 8:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR.

(Condensation products (Chemistry)) (Carbon monoxide) (Ethylene)

EYDUS, Ya.T.

AID P - 1311

Subject

: USSR/Chemistry

Card 1/1

Pub. 119 - 5/5

Authors

Eydus, Ya. T. and Puzitskiy, K. V. (Moscow)

Title

Catalytic polymerization of ethylene and propylene

Periodical

: Usp. khim., 23, no. 8, 986-1026, 1954

Abstract

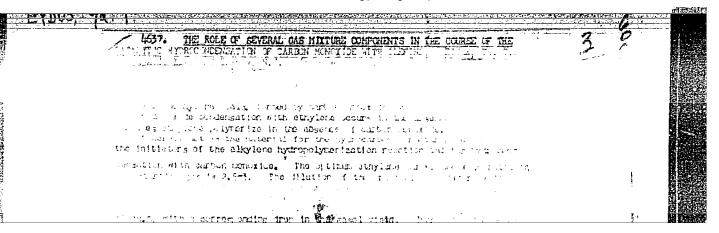
The catalytic effect of mineral acids, metallic halides and of heterogeneous catalysts on the polymerization of

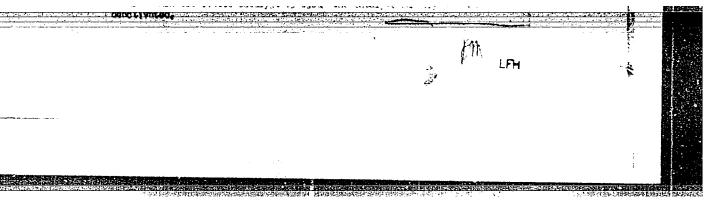
ethylene and propylene is covered. 220 references (32 Russian: 1873-1951).

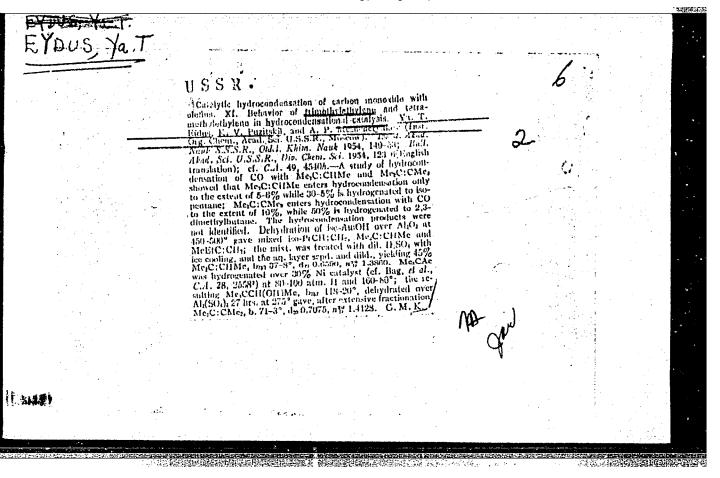
Institution: None

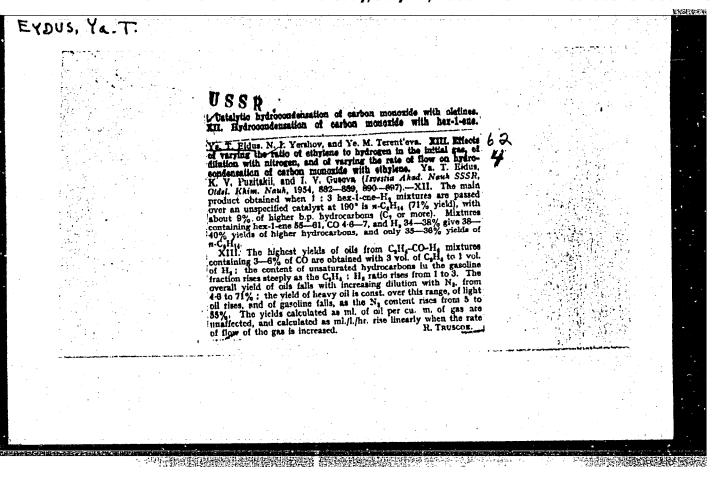
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: No date



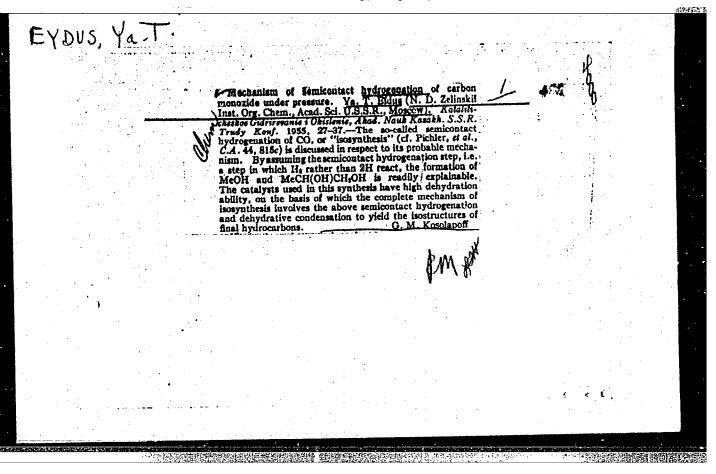


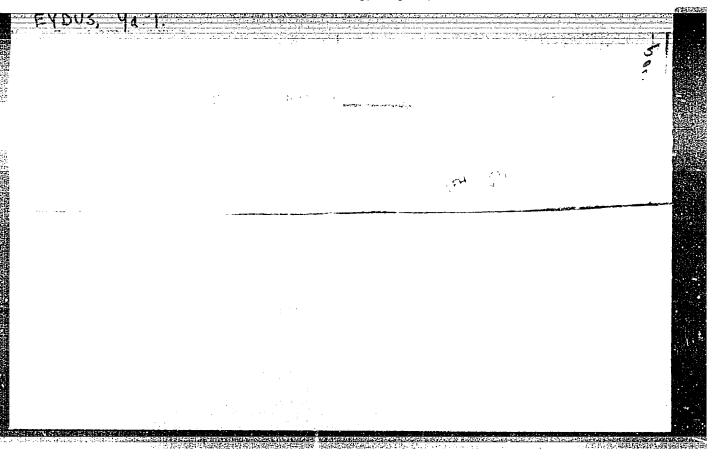




"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231





B-9

Eydus, 4A 1.

USSR/Physical Chemistry - Kinetics, Combustion

Explosives. Topochemistry. Satalysis

Abs Jour : Referat Zhur - Khimira, No 8, 1957, 3667

Author : Eydus Ya.T., Izmayle: Fol.

Inst : Department of Chemical Sciences, Academy of Sciences USSR Title : Catalytic Hydro-Condensation . Carbon Monoxide with

Title : Catalytic Hydro-Condensation . Carbon Monoxide with Olefins, Communication 14, Mutual Transformation of

Butenc-1 and Butene-2 Winder Conditions of Catalytic Hydro-Condensation of Carbon Monoride with Olefins, Cormunication of Finder Contemporation of Carbon Managed with

nication 15. Hydro-Contensation of Carbon Monoxide with

Butene-2.

Orig Pub : Izv. AN SSSR, Ctd. khim. n., 1955, No h, 467-474, 475-481

Abstract : 14. Investigation of the reaction of isomerization of

butene-1 (I) to butene-2 (II and of II to I, at 1900 and space velocity 66-100 hour-1, over catalysts of the reaction of hydro-condensation of CO with olefins. It is shown that in the absence of H_2 the reactions $I \rightarrow II$ and

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"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231

USSR/Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry. Catalysis

B-9

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 3867

II \rightarrow I are practically not taking place, in the presence of 10% II, the I:II ratio in the products of the reaction I \rightarrow II is of 1:1.1 The reaction II \rightarrow I is practically not taking place even in the presence of 22.6% II₂. Hydrogenation of olefins in the experiments with I occurs \sim 2 times more rapidly than with II under analogous conditions.

15. The reaction of hydro-condensation of CO with II was investigated in a flow system at 1900 and p = 1 atmosphere, in a glass tube. It was found that the reaction products contain essentially hydrocarbons of a normal structure admixed with hydrocarbons with a lateral CH3-group at the second atom of the carbon chain. From this the authors draw the conclusion that II, as such, reacts only to a slight extent, but unlargoes catalytic isomerization to I, which remains in its entirety

Card 2/3

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